

TASK : Assign elastic ip address for ec2 instance

→Elastic IP = Static public IP provided by AWS

Step 1: Launch an EC2 Instance

Name: Eip-demo-ec2

Select AMI :Amazon Linux 2023 64-bit (x86) Select Free tier eligible

Instance Type: t2.micro

Key Pair: select or create the key pair

Network Settings:

- VPC: Default
- Subnet: Public subnet
- Auto-assign Public IP: Enable

Security Group :

- SSH – Port 22 – My IP
- HTTP – Port 80 – Anywhere

Click **Launch Instance**

<input type="checkbox"/>	EIP-demo-ec2	i-0759f8c08d5e356e5	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2
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Step 2: Assign elastic ip address for ec2 instance

Go to EC2 → Elastic IPs

Click Allocate Elastic IP

AWS creates a static public IP

🟢 Elastic IP address associated successfully.
Elastic IP address 65.2.72.112 has been associated with instance i-0759f8c08d5e356e5

Elastic IP addresses (1) [Info](#) [Actions](#) [Allocate Elastic IP address](#)

Find elastic IP addresses by attribute or tag

Public IPv4 address : 65.2.72.112 [Clear filters](#)

<input type="checkbox"/>	Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
<input type="checkbox"/>	-	65.2.72.112	Public IP	eipalloc-0800d8cda2c74f9f2	-

- Select the Elastic IP
- Click Actions → Associate Elastic IP
- Choose:
 - Resource type: Instance
 - Select your EC2 instance
 - Click Associate

Associate Elastic IP address [Info](#)
Choose the instance or network interface to associate to this Elastic IP address (65.2.72.112)

Elastic IP address: 65.2.72.112

Resource type
Choose the type of resource with which to associate the Elastic IP address.

☒ Instance
☐ Network interface

Warning: If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

Instance

Search: i-0759f8c08d5e356e5

Use: "i-0759f8c08d5e356e5"

- i-024d8a92764e905d3 (Private EC2) - stopped
- i-0759f8c08d5e356e5 (EIP-demo-ec2) - running**
- i-0ce1daadce2479651 (Public EC2) - stopped

☐ Allow this Elastic IP address to be reassociated

[Cancel](#) [Associate](#)

→ **O/P:** EC2 now uses Elastic IP for all internet traffic

<input type="checkbox"/>	Private EC2	i-024d8a92764e905d3	Stopped	t2.micro	-	View alarms +	ap-south-1b	-
<input checked="" type="checkbox"/>	EIP-demo-ec2	i-0759f8c08d5e356e5	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-
<input type="checkbox"/>	Public EC2	i-0ce1daadce2479651	Stopped	t2.micro	-	View alarms +	ap-south-1a	-

i-0759f8c08d5e356e5 (EIP-demo-ec2)

[Details](#) | [Status and alarms](#) | [Monitoring](#) | [Security](#) | [Networking](#) | [Storage](#) | [Tags](#)

▼ **Instance summary** [Info](#)

Instance ID i-0759f8c08d5e356e5	Public IPv4 address 65.2.72.112 open address	Private IPv4 addresses 172.31.4.134
IPv6 address -	Instance state Running	Public DNS ec2-65-2-72-112.ap-south-1.compute.amazonaws.com open address

Advantage: if we stopped the instance also it having permanent IP address. If we are running any Jenkins server in that Instance at that time we need to use the static IP address and it should be the permanent IP address.

Step 3: If we dont want to use the elastic Ip address (Deallocate Elastic IP for the EC2 instance)

Go to EC2 → Elastic IPs

Select the Elastic IP

Click Actions → Disassociate Elastic IP

Elastic IP addresses (1/2) [Info](#)

Find elastic IP addresses by attribute or tag

<input checked="" type="checkbox"/>	Name	Allocated IPv4 address	Type	Allocation ID
<input checked="" type="checkbox"/>	-	65.2.72.112	Public IP	eipalloc-0800d8cd
<input type="checkbox"/>	-	65.2.90.229	Public IP	eipalloc-00a44487

Actions [Allocate Elastic IP address](#)

- View details
- Release Elastic IP addresses
- Associate Elastic IP address
- Disassociate Elastic IP address
- Update reverse DNS
- Enable transfers
- Disable transfers

o/p: now the public Ip address will change . aws will automatically assign the ip address for the EC2 instance

<input type="checkbox"/>	Private EC2	Instance ID	State	Instance Type	Subnet	Public IP	Private IP
<input checked="" type="checkbox"/>	EIP-demo-ec2	i-0759f8c08d5e356e5	Running	t2.micro	ap-south-1b	52.66.236.169	172.31.4.134
<input type="checkbox"/>	Public EC2	i-0ce1daadce2479651	Stopped	t2.micro	ap-south-1a	-	-

i-0759f8c08d5e356e5 (EIP-demo-ec2)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary [Info](#)

Instance ID i-0759f8c08d5e356e5	Public IPv4 address 52.66.236.169 open address	Private IPv4 addresses 172.31.4.134
IPv6 address -	Instance state Running	Public DNS ec2-52-66-236-169.ap-south-1.compute.amazonaws.com

Step 4: If we want to delete the elastic Ip address permanently

Select the same Elastic IP

Click Actions → Release Elastic IP address

Confirm

Elastic IP addresses (1/2) [Info](#)

Find elastic IP addresses by attribute or tag

<input checked="" type="checkbox"/>	Name	Allocated IPv4 address	Type	Allocation ID
<input checked="" type="checkbox"/>	-	65.2.72.112	Public IP	eipalloc-0800d8cd
<input type="checkbox"/>	-	65.2.90.229	Public IP	eipalloc-00a44487

Actions [Allocate Elastic IP address](#)

- View details
- Release Elastic IP addresses
- Associate Elastic IP address
- Disassociate Elastic IP address
- Update reverse DNS
- Enable transfers
- Disable transfers
- Accept transfers

65.2.72.112

o/p:

Elastic IP addresses [Info](#)

Find elastic IP addresses by attribute or tag

<input type="checkbox"/>	Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
No Elastic IP addresses found in this Region					

